

Guiding means at a joint.

Sub 9a. The present invention relates to a guiding means at a joint comprising groove and tenon, preferably intended to be joined with glue.

Prefabricated floorboards which at their edges are provided with groove and tenon are well known nowadays. As these are very easy to install it is possible for the normal handy man to achieve this. These type of floors can be constituted of massive wood, fibre board or particle board. These are often provided with a surface layer, such as lacquer or some sort of laminate. The boards are most often installed by gluing them together via their groove and tenon. It is desired to join the separate boards so closely that the joint becomes practically invisible, which increases the moisture resistance radically. The usable life of the installed floor is hereby also increased. In order to achieve a tight joint, it is essential that glue is used excessively. The clearance in the joint will therefore have to be relatively large in order to be able to force the boards together without having to use special equipment due to the forces that would be needed otherwise. A too small clearance will cause a hydraulic resistance caused by the glue captured inside the groove during the joining. The clearance needed will however cause a random discrepancy in the levels between adjacent floorboards. This discrepancy in levels will lead to an increased wear at the joint and that moisture may penetrate the joint. The decorative wear layer, often constituted by lacquer or laminate will hereby often be worn down closest to the joint. The wood fibre will hereby be naked closest to the joint, which in addition to being unsightly also may cause the fibres to swell when exposed to moisture. This causes the surface layer to rise closest to the edges whereby these edges will be exposed to further wear, which will decrease the useful life of the floor radically.

It has, through the present invention, quite unexpectedly been possible to solve the above mentioned problems so that the risk for error during installation is radically reduced, whereby the average usable life of the floor, with a guiding means according to the present invention, is considerably increased. Accordingly, the invention relates to a guiding means at a joint comprising groove and tenon preferably intended to be joined with glue. The invention is characterised in that the tenon and/or groove includes guiding wedges. The guiding means preferably forms a part of boards intended to, together form a floor. The core of the boards is constituted by a fibre board or a particle board. At least the upper side of the board is constituted by a decorative thermosetting laminate. The fitting clearance between the tenon and the groove includes a first fitting clearance and a second, guiding, fitting clearance. The second, guiding, fitting clearance is obtained through the guiding

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Accordingly, figure 1 shows, in perspective view seen from above, a first embodiment of a guiding means at a joint according to the invention. The guiding means comprises groove 1 and tenon 2 which usually is intended to be joined by using glue. The tenon 2 comprises guiding wedges 3 on the upper and lower sides. The fitting clearance between the groove 1 and tenon 2 includes a first and a second, guiding, fitting clearance, which second, guiding, fitting clearance is obtained by the guiding wedges 3. The first fitting clearance forms the main part of the fit while the second, guiding, fitting clearance forms a smaller part of the fit. The first fitting clearance is approximately 0.2 mm while the second, guiding fitting clearance is approximately 0.05 mm. The guiding wedges 3 are arranged parallel to the extension of the joint. The same embodiment is shown assembled in figure 2.

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Figure 3 shows, in perspective view seen aslant from above, a second embodiment of a guiding means at a joint, according to the invention. The embodiment conforms in the main with the one described in connection to figure 1 and 2. The tenon 2 is, however, provided with guiding wedges arranged perpendicularly to the extension of the joint.

Figure 4 shows, in perspective view seen aslant from above, a third embodiment of a guiding means at a joint, according to the invention. The embodiment is shown assembled. The embodiment corresponds in the main to the one described in connection to figure 1 and 2, the tenon 2 is however provided with guiding wedges 3 only at the lower side.

The invention is not limited by the embodiments shown since these can varied in different ways within the scope of the invention. Guiding wedges 3 can, for example, be arranged inside the groove 1. If these guiding wedges 3 are parallel to the extension of the joint, they are suitably arranged in the bottom of the groove 1 while they can be given a shape similar to the one shown in figure 3 if they are arranged perpendicularly to extension of the joint.